

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.-24. (Canceled)

25. (Currently Amended) A method comprising:

widening at least a portion of a greater palatine canal of a subject;

passing a treatment stimulation device through a greater palatine foramen of [[a]]
the subject;

bringing the device into contact with a vicinity of a site of the subject, the site selected from the group consisting of: a sphenopalatine ganglion (SPG) of the subject and a neural tract originating in or leading to the SPG;

applying stimulation with the device; and

configuring the stimulation to be sufficient to induce a change in cerebral blood flow of the subject.

26. (Currently Amended) A method comprising:

widening at least a portion of a greater palatine canal of a subject;

passing a treatment stimulation device through the at least a portion of the [[a]] greater palatine canal of-a-subject;

bringing the device into contact with a vicinity of a site of the subject, the site selected from the group consisting of: a sphenopalatine ganglion (SPG) of the subject and a neural tract originating in or leading to the SPG; and

applying stimulation with the device; and

configuring the stimulation to be sufficient to induce a change in cerebral blood flow of the subject.

27. (Previously Presented) The method according to claim 25, wherein the site includes the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the SPG.

28. (Previously Presented) The method according to claim 25, wherein the site includes a vidian nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the vidian nerve.
29. (Previously Presented) The method according to claim 25, wherein the site includes an ethmoidal nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the ethmoidal nerve.
30. (Previously Presented) The method according to claim 25, wherein the site includes a retro-orbital branch of the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the retro-orbital branch.
31. (Previously Presented) The method according to claim 25, wherein bringing the device into contact comprises:
- observing one or more physiological responses of the subject to the stimulation; and
verifying desired placement of the device responsive to the observation.
32. (Canceled)
33. (Previously Presented) A method comprising:
passing a treatment stimulation device through a greater palatine foramen of a subject;
bringing the device into contact with a vicinity of a site of the subject, the site selected from the group consisting of: a sphenopalatine ganglion (SPG) of the subject and a neural tract originating in or leading to the SPG;
applying stimulation with the device; and
configuring the stimulation to be sufficient to modulate permeability of a blood-brain-barrier of the subject.
34. (Previously Presented) The method according to claim 25, wherein the stimulation device includes at least one electrode, and wherein bringing the device into contact comprises bringing the electrode into contact with the vicinity of the site.

35. (Original) The method according to claim 34, wherein bringing the electrode into contact comprises wrapping the electrode around a nerve of the subject in the vicinity of the site.
36. (Previously Presented) The method according to claim 25, wherein the stimulation device includes a stimulator, the method comprising fixing the stimulator to a hard palate of the subject.
37. (Original) The method according to claim 36, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a supraperiosteal region of the hard palate.
38. (Original) The method according to claim 36, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to an upper surface of the hard palate in a nasal cavity of the subject.
39. (Original) The method according to claim 36, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a lower surface of the hard palate.
40. (Original) The method according to claim 25, wherein passing the device through the greater palatine foramen comprises determining a depth of insertion of the device in a greater palatine canal of the subject by observing at least one mark on the device indicative of the depth of the insertion.
41. (Cancelled)
42. (Currently Amended) The method according to claim 25 [[41]], wherein widening the greater palatine canal of the subject comprises using a series of tools having successively greater diameters.
43. (Original) The method according to claim 25, wherein passing the device through the greater palatine foramen comprises mounting the device on an introducer, and passing the introducer through the greater palatine foramen.
44. (Original) The method according to claim 26, wherein passing the device through the portion of the greater palatine canal comprises determining a depth of insertion of the device in the greater palatine canal by observing at least one mark on the device indicative of the depth of the insertion.
45. (Original) The method according to claim 26, wherein passing the device through at least a portion of the greater palatine canal comprises passing the device through at least about 2 cm of the greater palatine canal.

46. (Canceled)

47. (Currently Amended) The method according to claim 26 [[46]], wherein widening the portion comprises using a series of tools having successively greater diameters.

48. (original) The method according to claim 26, wherein passing the device through the at least a portion of the greater palatine canal comprises mounting the device on an introducer, and passing the introducer through the portion.

49-65. (Canceled)

66. (Previously Presented) The method according to claim 25, wherein bringing the device into contact comprises implanting the device in the vicinity of the site.

67. (Previously Presented) The method according to claim 26, wherein bringing the device into contact comprises implanting the device in the vicinity of the site.

68. (Previously Presented) The method according to claim 26, wherein the site includes the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the SPG.

69. (Previously Presented) The method according to claim 26, wherein the site includes a vidian nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the vidian nerve.

70. (Previously Presented) The method according to claim 26, wherein the site includes an ethmoidal nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the ethmoidal nerve.

71. (Previously Presented) The method according to claim 26, wherein the site includes a retro-orbital branch of the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the retro-orbital branch.

72. (Previously Presented) The method according to claim 26, wherein bringing the device into contact comprises:

observing one or more physiological responses of the subject to the stimulation; and
verifying desired placement of the device responsive to the observation.

73. (Canceled)

74. (Previously Presented) A method comprising:

passing a treatment stimulation device through at least a portion of a greater palatine canal of a subject;

bringing the device into contact with a vicinity of a site of the subject, the site selected from the group consisting of: a sphenopalatine ganglion (SPG) of the subject and a neural tract originating in or leading to the SPG;

applying stimulation with the device; and

configuring the stimulation to be sufficient to modulate permeability of a blood-brain-barrier of the subject.

75. (Previously Presented) The method according to claim 26, wherein the stimulation device includes at least one electrode, and wherein bringing the device into contact comprises bringing the electrode into contact with the vicinity of the site.

76. (Previously Presented) The method according to claim 75, wherein bringing the electrode into contact comprises wrapping the electrode around a nerve of the subject in the vicinity of the site.

77. (Previously Presented) The method according to claim 26, wherein the stimulation device includes a stimulator, the method comprising fixing the stimulator to a hard palate of the subject.

78. (Previously Presented) The method according to claim 77, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a supraperiosteal region of the hard palate.

79. (Previously Presented) The method according to claim 77, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to an upper surface of the hard palate in a nasal cavity of the subject.

80. (Previously Presented) The method according to claim 77, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a lower surface of the hard palate.

81. (Previously Presented) The method according to claim 33, wherein the site includes the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the SPG.

82. (Previously Presented) The method according to claim 33, wherein the site includes a vidian nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the vidian nerve.

83. (Previously Presented) The method according to claim 33, wherein the site includes an ethmoidal nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the ethmoidal nerve.

84. (Previously Presented) The method according to claim 33, wherein the site includes a retro-orbital branch of the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the retro-orbital branch.

85. (Previously Presented) The method according to claim 33, wherein bringing the device into contact comprises:

observing one or more physiological responses of the subject to the stimulation; and
verifying desired placement of the device responsive to the observation.

86. (Previously Presented) The method according to claim 33, wherein the stimulation device includes a stimulator, the method comprising fixing the stimulator to a hard palate of the subject.

87. (Previously Presented) The method according to claim 86, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a supraperiosteal region of the hard palate.

88. (Previously Presented) The method according to claim 86, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to an upper surface of the hard palate in a nasal cavity of the subject.

89. (Previously Presented) The method according to claim 86, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a lower surface of the hard palate.

90. (Previously Presented) The method according to claim 33, wherein bringing the device into contact comprises implanting the device in the vicinity of the site.

91. (Previously Presented) The method according to claim 74, wherein bringing the device into contact comprises implanting the device in the vicinity of the site.

92. (Previously Presented) The method according to claim 74, wherein the site includes the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the SPG.

93. (Previously Presented) The method according to claim 74, wherein the site includes a vidian nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the vidian nerve.

94. (Previously Presented) The method according to claim 74, wherein the site includes an ethmoidal nerve of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the vicinity of the ethmoidal nerve.

95. (Previously Presented) The method according to claim 74, wherein the site includes a retro-orbital branch of the SPG of the subject, and wherein bringing the device into contact with the vicinity of the site comprises bringing the device into contact with the retro-orbital branch.

96. (Previously Presented) The method according to claim 74, wherein bringing the device into contact comprises:

observing one or more physiological responses of the subject to the stimulation; and
verifying desired placement of the device responsive to the observation.

97. (Previously Presented) The method according to claim 74, wherein the stimulation device includes a stimulator, the method comprising fixing the stimulator to a hard palate of the subject.

98. (Previously Presented) The method according to claim 97, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a supraperiosteal region of the hard palate.

99. (Previously Presented) The method according to claim 97, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to an upper surface of the hard palate in a nasal cavity of the subject.

100. (Previously Presented) The method according to claim 97, wherein fixing the stimulator to the hard palate comprises coupling the stimulator to a lower surface of the hard palate.

101. (Currently Amended) The method according to claim 25 [[41]], wherein widening the greater palatine canal comprises using a series of periosteal elevators having successively greater diameters.
102. (Currently Amended) The method according to claim 26 [[46]], wherein widening the portion comprises using a series of periosteal elevators having successively greater diameters.
103. (Previously Presented) The method according to claim 33, wherein passing the device through the greater palatine foramen comprises widening a greater palatine canal of the subject.
104. (Previously Presented) The method according to claim 103, wherein widening the greater palatine canal comprises abrading.
105. (Previously Presented) The method according to claim 103, wherein widening the greater palatine canal comprises removing osseous debris.
106. (Previously Presented) The method according to claim 74, wherein passing the device through the at least a portion of the greater palatine canal comprises widening the portion.
107. (Previously Presented) The method according to claim 106, wherein widening the portion palatine canal comprises abrading.
108. (Previously Presented) The method according to claim 106, wherein widening the portion comprises removing osseous debris.
109. (Currently Amended) The method according to claim 25 [[41]], wherein widening the greater palatine canal comprises abrading.
110. (Currently Amended) The method according to claim 25 [[41]], wherein widening the greater palatine canal comprises removing osseous debris.
111. (Currently Amended) The method according to claim 26 [[46]], wherein widening the portion comprises abrading.
112. (Currently Amended) The method according to claim 26 [[46]], wherein widening the portion comprises removing osseous debris.